Jiating Yu, Ph.D.

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Employment History

2023 - Now

Nanjing University of Information Science and Technology (NUIST)
Assistant Professor, School of Mathematics and Statistics

Education

2018 - 2023

■ Ph.D., University of Chinese Academy of Sciences (UCAS)

Academy of Mathematics and Systems Science (AMSS) Major in *Operational Research and Cybernetics*

2014 - 2018

B.D., Xiangtan University (XTU)

School of Mathematics and Computational Science Major in *Information and Computing Science (Shaofeng class)*

Research Publications

Journal Articles

- J. Yu, J. Leng, Z. Hou, D. Sun, and L.-Y. Wu, "Incorporating network diffusion and peak location information for better single-cell ATAC-seq data analysis," *Briefings in Bioinformatics*, vol. 25, no. 2, bbaeo93, Mar. 2024, ISSN: 1477-4054. ODI: 10.1093/bib/bbae093.
- J. Yu, J. Leng, F. Yuan, D. Sun, and L.-Y. Wu, "Reverse network diffusion to remove indirect noise for better inference of gene regulatory networks," *Bioinformatics*, vol. 40, no. 7, btae435, Jul. 2024, ISSN: 1367-4811. ODI: 10.1093/bioinformatics/btae435.
- Z. Hou, J. Leng, J. Yu, Z. Xia, and L.-Y. Wu, "Pathexpsurv: Pathway expansion for explainable survival analysis and disease gene discovery," *BMC Bioinformatics*, vol. 24, p. 434, 2023, ISSN: 1471-2105. ODI: 10.1186/s12859-023-05535-2.
- J. Yu, J. Leng, D. Sun, and L.-Y. Wu, "Network refinement: Denoising complex networks for better community detection," *Physica A: Statistical Mechanics and its Applications*, vol. 617, p. 128 681, 2023, ISSN: 0378-4371. ODOI: 10.1016/j.physa.2023.128681.
- J. Yu and L.-Y. Wu, "Multiple order local information model for link prediction in complex networks," *Physica A: Statistical Mechanics and its Applications*, vol. 600, p. 127 522, 2022, ISSN: 0378-4371. ODOI: 10.1016/j.physa.2022.127522.

Skills

Languages

Strong reading, writing and speaking competencies for English, Mandarin Chinese.

Coding

Python, R, Matlab

Misc.

Academic research, teaching, training.

Projects and Funds

Projects

2020-2021 Research on analyzing the chain of security incidents

13th Five-Year Plan "Comprehensive Risk Assessment Technology for Public Security in the Winter Olympics" project. Participating members.

2021-2022 Research on Performance Evaluation System for Research Institutes

Cooperative Project of Beijing Institute of Labour Protection Science. Participating members.

2022-2024 Research on Non-Oil Integrated Supply Chain

China National Petroleum Corporation Co-operation Project. Participating members.

Funds

Graph models and algorithms for cancer regulatory network construction and pathway analysis

National Key Research and Development Special Project. Participating members.

2024-2027 Heterogeneous network-based single-cell multi-omics data integration study

The Startup Foundation for Introducing Talent of NUIST. Responsible person.

Miscellaneous Experience

Awards and Achievements

2022 **Schlumberger Scholarships**, University of Chinese Academy of Sciences.

2020 Merit students, University of Chinese Academy of Sciences.

2018 Xiangtan University 2018 Outstanding Graduates, Xiangtan University.

Xiangtan Outstanding Graduates, Xiangtan University.

2017 National Inspiration Scholarship, Xiangtan University.

2016 **Outstanding Student Cadre**, Xiangtan University.

National Scholarships, Xiangtan University.

Scholarships in Basic Subjects, Xiangtan University.

Advanced Individual, Xiangtan University.

Second Prize of Mathematics Competition for College Students in Hunan Province (Mathematics Category), Xiangtan University.

Third Prize of the Eighth National University Student Mathematics Competition (Mathematics Major), Xiangtan University.

2015 Class A Scholarships, Xiangtan University.

Xiangjiang Scholarships, Xiangtan University.

Certification

2018 National Computer Rank Examination level 2.

2016 College English Test-6.